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| | DB=PG | GPB, USPT, USOC, EPAB, JPAB, DWPI; PLUR=YES; OP=ADJ | | | |
| | L6 | L5 not 12 | 10 | | |
| | L5 | L3 and glycosyl | 14 | | |
| | L3 | WITHERS.IN. | 744 | | |
| | , L2 | L1 WITH (RETAINING OR INVERTING) | 4 | | |
| | L1 | (GLYCOSIDASE OR GLYCOSYL) WITH (MUTA\$4 OR VARIANT) | 543 | | |

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20030138880 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 4

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138880

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138880 A1

TITLE: Solid-phase synthesis of oligosaccharides and glycopeptides using

glycosynthases

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY
Withers, Stephen G. Vancouver CA
Jensen, Knud J. Copenhagen DK
Petersen, Lars Copenhagen DK

Tolborg, Jakob L. Ballerup DK

US-CL-CURRENT: 435/68.1; 435/101, 435/85

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 2. Document ID: US 20030100749 A1

L2: Entry 2 of 4

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100749

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100749 A1

TITLE: Methods and compositions for synthesis of oligosaccharides using mutant

glycosidase enzymes

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

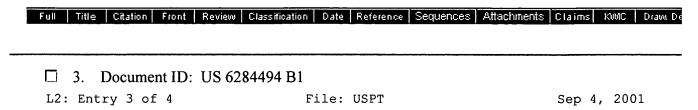
Withers, Stephen G. Vancouver CA
MacKenzie, Lloyd Vancouver CA

Wang, Qingping

Kirkland

CA

US-CL-CURRENT: 536/123.1; 435/100, 435/101, 435/201, 536/123.13

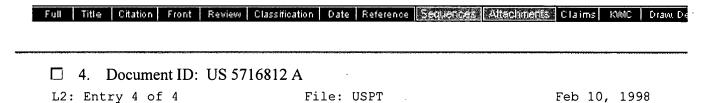


US-PAT-NO: 6284494

DOCUMENT-IDENTIFIER: US 6284494 B1

TITLE: Methods and compositions for synthesis of oligosaccharides using mutant

glycosidase enzymes

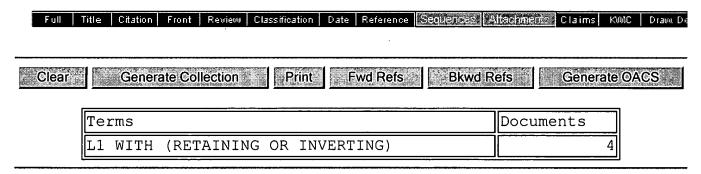


US-PAT-NO: 5716812

DOCUMENT-IDENTIFIER: US 5716812 A

TITLE: Methods and compositions for synthesis of oligosaccharides, and the products

formed thereby



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Previous Page Next Page Go to Doc#

Hit List

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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20040096951 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 10

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040096951

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040096951 A1

TITLE: Crystal structures of retaining glycosytransferases

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Withers, Stephen G. Vancouver CA Wakarchuk, Warren W. CA Gloucester Strynadka, Natalie C.J. Vancouver CA Dieckelmann, Manuela Brisbane ΑU Ly, Hoa Kitchener Ontario CA CA Persson, Karina Vancouver

US-CL-CURRENT: <u>435/193</u>; <u>435/87</u>, <u>536/53</u>

| Full Title Citation Front Review (| Classification Date Reference | Sequences Attachments | Claims KWC Draw D |
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| | | | |
| ☐ 2. Document ID: US 620 | 4029 B1 | rauthainna an deann ar an | |
| I.6: Entry 2 of 10 | File: NSPT | | Mar 20, 2001 |

US-PAT-NO: 6204029

DOCUMENT-IDENTIFIER: US 6204029 B1

TITLE: Glycosylated acceptor synthesis catalyzed by glycosyl transferase and

nucleotide phosphate sugar-dependent enzyme

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Drawi De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| | | | | | | | | | | | | |

☐ 3. Document ID: US 5952203 A

L6: Entry 3 of 10

File: USPT

Sep 14, 1999

Record List Display Page 2 of 4

US-PAT-NO: 5952203

DOCUMENT-IDENTIFIER: US 5952203 A

TITLE: Oligosaccharide synthesis using activated glycoside derivative, glycosyl

transferase and catalytic amount of nucleotide phosphate

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw De

☐ 4. Document ID: WO 2005040371 A1

L6: Entry 4 of 10

File: EPAB

May 6, 2005

PUB-NO: WO2005040371A1

DOCUMENT-IDENTIFIER: WO 2005040371 A1

TITLE: ENGINEERED ENZYMES AND THEIR USE FOR SYNTHESIS OF THIOGLYCOSIDES

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

5. Document ID: EP 1211320 A2

L6: Entry 5 of 10

File: EPAB

Jun 5, 2002

PUB-NO: EP001211320A2

DOCUMENT-IDENTIFIER: EP 1211320 A2

TITLE: Methods and compositions for synthesis of oligosacccharides using mutant

glycosidase enzymes

Full | Title | Citation | Front | Review | Classification | Date | Reference | **Sequences | Attachments** | Claims | KWC | Draw De

☐ 6. Document ID: WO 9846784 A1

L6: Entry 6 of 10

File: EPAB

Oct 22, 1998

PUB-NO: WO009846784A1

DOCUMENT-IDENTIFIER: WO 9846784 A1

TITLE: IMPROVED SYNTHESIS OF OLIGOSACCHARIDES USING ACTIVATED GLYCOSIDE DERIVATIVES

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

7. Document ID: WO 9721822 A2

L6: Entry 7 of 10

File: EPAB

Jun 19, 1997

PUB-NO: WO009721822A2

DOCUMENT-IDENTIFIER: WO 9721822 A2

TITLE: METHODS AND COMPOSITIONS FOR SYNTHESIS OF OLIGOSACCHARIDES USING MUTANT

GLYCOSIDASE ENZYMES

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

□ 8. Document ID: WO 2005040371 A1

L6: Entry 8 of 10

File: DWPI

May 6, 2005

DERWENT-ACC-NO: 2005-346731

DERWENT-WEEK: 200535

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TITLE: Novel thioglycosynthases obtained from wild type by converting its catalytically active amino acids serving as acid/base catalyst and as catalytic nucleophile, to some other amino acid, useful for synthesizing thioglycoside

Full Title Citation Front Review Classification Date Reference School Files (1996) Claims KWIC Draw De

9. Document ID: US 6204029 B1

L6: Entry 9 of 10

File: DWPI

Mar 20, 2001

DERWENT-ACC-NO: 2001-307169

DERWENT-WEEK: 200132

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TITLE: Composition for forming a glycosylated acceptor, comprising an activated glycoside derivative, a mutant <u>glycosyl</u> transferase, an acceptor substrate and a nucleotide phosphate

Full Title Citation Front Review Classification Date Reference **Sequences Attachnems** Claims KMC Draw. De

☐ 10. Document ID: MX 212201 B, WO 9846784 A1, AU 9870204 A, US 5952203 A, EP 973932 A1, MX 9909281 A1, AU 739383 B, JP 2001519669 W

L6: Entry 10 of 10

File: DWPI

Dec 17, 2002

DERWENT-ACC-NO: 1998-583289

DERWENT-WEEK: 200413

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TITLE: Preparation of glycosylated acceptors for use as donor sugars in oligosaccharide synthesis - by admixing activated glycoside derivative e.g. qlycosyl fluoride, acceptor substrate e.g. lactose qlycosyl transferase e.g. alphasialyl transferase and nucleotide phosphate analogues in aqueous medium

Full Title Citation Front Review Classification Date Reference Color Review Classification Date Reference Color Review Classification Date Reference Color Reference Reference

Terms Documents

L5 not L2 10

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Previous Page Next Page Go to Doc#

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                  STN AnaVist, now available
 NEWS
         AUG 11 STN AnaVist workshops to be held in North America
 NEWS 5
         AUG 30 CA/CAplus -Increased access to 19th century research documents
 NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
 NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
 NEWS 8 OCT 03 MATHDI removed from STN
 NEWS 9 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added
                  to core patent offices
 NEWS 10 OCT 06
                 STN AnaVist workshops to be held in North America
 NEWS 11 OCT 13
                 New CAS Information Use Policies Effective October 17, 2005
 NEWS 12 OCT 17
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 NEWS EXPRESS
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              AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
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     and its production method by cysteine substitution followed by oxidation
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IN
     Saburi, Wataru; Mori, Haruhide; Okuyama, Masayuki; Kimura, Atsuo;
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PA
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AN
      2005-17922 BIOTECHDS
      Thermus thermophilus glycosynthases for the efficient synthesis of
ΤI
      galactosyl and glucosyl beta-(1 -andgt; 3)-glycosides;
         bacterium recombinant enzyme production and transglycosidation for use
         in oligosaccharide production
     DRONE J; FENG HY; TELLIER C; HOFFMANN L; TRAN V; RABILLER C; DION M
ΑU
      Univ Sci and Technol
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LO
      F-44322 Nantes, France
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AN
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     Engineering of a thioglycoligase: randomized mutagenesis of the acid-base
     residue leads to the identification of improved catalysts.
AU
     Mullegger Johannes; Jahn Michael; Chen Hong-Ming; Warren R Antony J;
     Withers Stephen G
     Protein Engineering Network of Centres of Excellence, Department of
CS
     Chemistry and Department of Microbiology, University of British Columbia,
     Vancouver, BC V6T 1Z1, Canada.
     Protein Eng Des Sel, (2005 Jan) 18 (1) 33-40.
SO
     Journal code: 101186484. ISSN: 1741-0126.
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     Novel mutant form of glycosidase enzyme obtained by mutating a glycosidase
     enzyme to replace a catalytically active amino acid with different amino
     acid, useful in synthesis of thioglycosides.
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     JAHN, M; WITHERS, S G
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     Directed evolution of a glycosynthase from Agrobacterium sp. increases its
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     catalytic activity dramatically and expands its substrate repertoire.
AU
     Kim Young-Wan; Lee Seung Seo; Warren R Antony J; Withers Stephen G
     Protein Engineering Network of Centres of Excellence of Canada, British
CS
     Columbia, Canada.
     Journal of biological chemistry, (2004 Oct 8) 279 (41) 42787-93.
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     Journal code: 2985121R. ISSN: 0021-9258.
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                                                         DUPLICATE 3
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                    MEDLINE
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     PubMed ID: 14740034
     Thioglycosynthases: double mutant glycosidases that serve as scaffolds for
ΤI
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Jahn Michael; Chen Hongming; Mullegger Johannes; Marles Jennifer; Warren R

thioglycoside synthesis.

Antony J; Withers Stephen G

ΑU

Department of Chemistry, University of British Columbia, 2036 Main Mall, CS Vancouver, B.C. V6T 1Z1, Canada. so Chemical communications (Cambridge, England), (2004 Feb 7) (3) 274-5. Electronic Publication: 2004-01-05. Journal code: 9610838. ISSN: 1359-7345. CY England: United Kingdom DТ Journal; Article; (JOURNAL ARTICLE) LA English Priority Journals FS 200405 EΜ ED Entered STN: 20040124 Last Updated on STN: 20040510 Entered Medline: 20040507 ANSWER 7 OF 12 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN L3 DUPLICATE 4 AN 2001-07440 BIOTECHDS Enzymatic synthesis of carbon-fluorine bonds; ΤI Agrobacterium sp. beta-glucosidase and Cellulomonas fimi beta-mannosidase-catalyzed 2,4-dinitrophenyl beta-glycoside halogenation for carbon-fluorine bond formation study ΑU Zechel D L; Reid S P; Nashiru O; Mayer C; Stoll D; Jakeman D L; Warren R A J; *Withers S G CS Univ.British-Columbia Protein Engineering Network of Centres of Excellence and Department of LO Chemistry, University of British Columbia, Vancouver, British Columbia V6T 1Z1, Canada. Email: withers@chem.ubc.ca SO J.Am.Chem.Soc.; (2001) 123, 18, 4350-51 CODEN: JACSAT ISSN: 0002-7863 DT Journal English LΑ L_3 ANSWER 8 OF 12 MEDLINE on STN DUPLICATE 5 AN 2001267758 MEDLINE PubMed ID: 11358691 DN Directed evolution of new glycosynthases from Agrobacterium TΙ beta-glucosidase: a general screen to detect enzymes for oligosaccharide synthesis. Mayer C; Jakeman D L; Mah M; Karjala G; Gal L; Warren R A; Withers S G AU Protein Engineering Nework of Centres of Excellence of Canada, Department CS of Chemistry, University of British Columbia, Vancouver. Chemistry & biology, (2001 May) 8 (5) 437-43. SO Journal code: 9500160. ISSN: 1074-5521. CY England: United Kingdom Journal; Article; (JOURNAL ARTICLE) DT LA English Priority Journals FS EΜ 200109 Entered STN: 20010917 ED Last Updated on STN: 20010917 Entered Medline: 20010913 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN L3 2000:327102 HCAPLUS ANΤI Turbo-glycosynthases: Enhanced glycosylation activity obtained by substituting serine at the nucleophile position in retaining glycosidases. Zechel, David L.; Mayer, Christoph; Nashiru, Oyekanmi; Reid, Stephen P.; ΑU Warren, R. Antony J.; Withers, Stephen G. Department of Chemistry, University of British Columbia, Vancouver, BC, CS V6T 1Z1, Can. Book of Abstracts, 219th ACS National Meeting, San Francisco, CA, March SO 26-30, 2000 (2000), BIOL-061 Publisher: American Chemical Society, Washington, D. C. CODEN: 69CLAC DT Conference; Meeting Abstract English LA DUPLICATE 6 ANSWER 10 OF 12 MEDLINE on STN L3AN 2000115459 MEDLINE DN PubMed ID: 10648808 ΤI The E358S mutant of Agrobacterium sp. beta-glucosidase is a greatly

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Mayer C; Zechel D L; Reid S P; Warren R A; Withers S G
ŒΑ
CS
     Protein Engineering Network of Centres of Excellence, Department of
     Chemistry, University of British Columbia, Vancouver, B.C., Canada.
     FEBS letters, (2000 Jan 21) 466 (1) 40-4.
     Journal code: 0155157. ISSN: 0014-5793.
CY
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DT
     Journal; Article; (JOURNAL ARTICLE)
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     Entered Medline: 20000222
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L3
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DN
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ΤI
     The E358S mutant of Agrobacterium sp. beta-glucosidase is a greatly
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     Mayer, Christoph; Zechel, David L.; Reid, Stephen P.; Warren, R. Antony
AU
     J.; Withers, Stephen G. [Reprint author]
     Protein Engineering Network of Centres of Excellence, Department of
CS
     Chemistry, University of British Columbia, Vancouver, B.C., V6T 1Z1,
     FEBS Letters, (Jan. 21, 2000) Vol. 469, No. 1, pp. 40-44. print.
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DT
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LA
ED
     Entered STN: 5 Apr 2000
     Last Updated on STN: 3 Jan 2002
      ANSWER 12 OF 12 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
L3
ΑN
      1995-03027 BIOTECHDS
ΤI
      Changing enzymatic reaction mechanisms by mutagenesis: conversion of a
      retaining glucosidase to an inverting enzyme;
         Agrobacterium faecalis retaining beta-glucosidase conversion to
         inverting enzyme by enzyme engineering and point mutation; potential
         use in oligosaccharide production
      Wanq Q; Graham R W; Trimbur D; Warren R A J; *Withers S G
AU
CS
      Univ.British-Columbia
      Department of Chemistry, University of British Columbia, 2036 Main Mall,
LO
      Vancouver, BC, V6T 1Z1 Canada.
      Email: withers@unixq.ubc.ca
      J.Am.Chem.Soc.; (1994) 116, 25, 11594-95
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improved glycosynthase.

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